

## SYSTEM FOR ATTACHING BROADBAND TEST POINT WITHIN HFC NETWORK

## ABSTRACT

A system for monitoring ingress in a bi-directional HFC network having a domain manager located at the hub to monitor the status of the network, a fiber-optic trunk, and a series of nodes located along the trunk is provided. The monitoring system comprises a BTP (Broadband Test Point) located at a tap, integrated into a node or amplifier, or strand-mounted as a stand-alone device. The BTP includes an ingress monitoring interface connected to the HFC network through a downstream-facing directional coupler to detect ingress in the network downstream from the interface, and a modem connected to the network through an upstream-facing directional coupler. The modem is in communication with the domain manager to transmit detected ingress information.